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July 1, 2002

Ms. Kristy Chew  
Siting Project Manager  
California Energy Commission  
1516 Ninth Street, MS-15  
Sacramento, CA 95814


RE: Data Responses, Set 3E  
Cosumnes Power Plant (01-AFC-19)

On behalf of the Sacramento Municipal Utility District, please find attached 12 copies and one original of the Data Responses, Set 3E, in response to Staff's Data Requests dated April 5, 2002.

Please call me if you have any questions.

Sincerely,

CH2M HILL



John L. Carrier, J.D.  
Program Manager

c: Colin Taylor/SMUD  
Kevin Hudson/SMUD  
Steve Cohn/SMUD

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# **COSUMNES POWER PLANT (01-AFC-19)**

## **DATA RESPONSE, SET 3E** (Response to Data Request: 229c)

Submitted by  
**SACRAMENTO MUNICIPAL  
UTILITY DISTRICT (SMUD)**

July 1, 2002



2485 Natomas Park Drive, Suite 600  
Sacramento, California 95833-2937

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COSUMNES POWER PLANT (01-AFC-19)  
DATA RESPONSES, SET 3E

**Technical Area: Waste Management**

**Author:** Alvin Greenberg, Ph.D.

**CPP Authors:** Karen Parker

**BACKGROUND**

Recent correspondence (see attached letter from February 5, 2002) and conversations with the Department of Toxic Substances Control (DTSC) indicate a Phase I Environmental Site Assessment (ESA) for the entire length of the natural gas pipeline alignment is required.

**DATA REQUEST**

229. Please provide a complete Phase I ESA for the 26-mile gas pipeline corridor and natural gas compressor stations according to ASTM 2000 guidelines.

**Response:** A workshop was held on May 15, 2002 to discuss this data request. At that meeting it was agreed that the material listed in Table WM-229 would be provided in response to this data request.

**TABLE WM-229**

Action Items from May 15, 2002 Workshop

Responsible Party	Item	Date Submitted to CEC
Applicant	a. Aerial photos of the entire gas line to DTSC	5/16/02
Applicant	b. Sanborn Maps of the gas line corridor (if available)	6/7/02
Applicant	c. Historical Aerial photos covering the gas line alignment	7/1/02
Applicant	d. Technical Memo on the properties of interest identified at the workshop and found on figures: 4, 5, 14, 17, 22, 37, and 45	6/7/02
Applicant	e. Invite CEC's representative for survey of RR corridor along Franklin Road	5/23/02
Applicant	f. Tech Memo summarizing biologist's survey for suspected contamination along the gas line corridor	6/7/02
Applicant	g. Email selected pages of photos to Alvin Greenberg (7 pages)	5/15/02
Applicant	h. Provide NRC contact for radiological data	5/20/02
Applicant	i. Provide information on Rancho Seco landfill and check with IWMB for records of landfill, including a record search of the trenches	6/7/02
Applicant	j. Research existence of, and data from, RSP biological monitoring locations	6/7/02
CEC	k. Provide list of contaminants and sampling protocol	

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229c. Historical aerial photos covering the gas line alignment

**Response:** Historical aerial photos of the gas line alignment and the plant site are attached. The photos are numbered based on the year it was taken the number of the photo going from west to east. Comments on the photos are also included.

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Comments on 1994 Historical Photos			
Photo Number	Orientation Features	Visible Features	Noteworthy Features
1994-1	RR, Franklin Blvd, Dwight Rd, Sims Rd	1 large water tank, housing development east of RR tracks, drainage ditch	Lower Dwight Rd area (off Laguna Blvd.) not developed yet (including substation)  Corresponds to Figure 4
1994-2	Laguna Blvd, RR, Franklin Blvd, Elliott Ranch Rd	Pond (?) in similar location to storm water detention basin	Pond (?) oriented differently than SW detention basin on site today  Lower Dwight Rd area not developed yet  Corresponds to Figure 5
1994-3	Elk Grove Blvd	No development near RR south of Elk Grove Blvd, one development to east of RR north of Elk Grove Blvd	
1994-4	RR, Franklin Blvd, Bilby Rd, RR Crossing at Franklin Blvd	Farms, farm fields	Bilby Rd looks very similar to 2002 photos  Corresponds to Figure 14
1994-5	RR, Franklin Blvd, Core Rd	Carmo Dairy on Franklin Blvd west of RR tracks	Corresponds to Figure 17
1994-6	Core Rd, Ed Rau Rd, Eschinger Rd (at bottom of photo)	Farms, farm fields	No bus storage yard visible between Core Rd and Bruceville Rd along dirt access road to transmission towers  Corresponds to Figure 22
1994-7	Eschinger Rd, Bruceville Rd	Farms, farm fields	
1994-8	Eschinger Rd	Farm fields	
1994-9	South of Eschinger Rd (where it turns north)	Farm fields, Cosumnes River (lower rt hand corner)	
1994-10	Cosumnes River	Cosumnes River, RR tracks (on right)	
1994-11	RR, Highway 99, Arno Rd	RR tracks on left, cemetery north of Arno Rd, farms on south side of Arno Rd	
1994-12	Valensin Rd	Farms	

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Comments on 1994 Historical Photos			
Photo Number	Orientation Features	Visible Features	Noteworthy Features
1994-13	Valensin Rd	Farms, paddocks, fish ponds (right and middle)	Corresponds to Figure 37
1994-14	Valensin Rd	Large fish farm on north, RR, road jogs south then east again	
1994-15	Valensin Rd, Alta Mesa Rd, Laguna Rd	Farms, Laguna Creek, Laguna Rd on right	
1994-16	Laguna Rd, Twin Cities Rd	Laguna Rd (west), Twin Cities Rd. (south and east), Laguna Creek (north), Farms	
1994-17	Twin Cities Rd	Ranch at 12901 Twin Cities Rd (left), Aqueduct (Folsom South Canal)	Corresponds to Figure 45
1994-18	Twin Cities Rd, Clay Station Rd, Clay East Rd	Houses on Clay East Rd, Area west of Rancho Seco site	

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Comments on 1981 Historical Photos			
Photo Number	Orientation Features	Visible Features	Noteworthy Features
1981-1	RR, Dwight Rd, Sims Rd	Farms, farmland	No water tanks, no housing development east of RR tracks, no development in Dwight Rd area  Corresponds to Figure 4
1981-2	RR, Franklin Blvd, Elliott Ranch Rd	Farms, farmland	Laguna Blvd not constructed yet, no housing developments along RR  Corresponds to Figure 5
1981-3	RR, Franklin Blvd	Farms on east side of Franklin Blvd	No development along RR
1981-4	RR, Franklin Blvd, Bilby Rd, Town of Franklin	Small residential development west of RR tracks, Farmhouse with circular driveway east of RR tracks, Farms, farm fields	Very similar to 1994 photo  Corresponds to Figure 14
1981-5	RR, Franklin Blvd, Core Rd	Carmo Dairy on Franklin Blvd west of RR tracks	Similar to 1994 photo  Covered area for livestock not yet constructed; excavated watering pond not yet constructed but ditch improvement shown  Corresponds to Figure 17
1981-6	Core Rd, Ed Rau Rd, Eschinger Rd (at bottom of photo)	Farms, farm fields	Very similar to 1994 photo  No bus storage yard visible between Core Rd and Bruceville Rd along dirt access road to transmission towers  Corresponds to Figure 22
1981-7	Eschinger Rd, Bruceville Rd	Farms, farm fields	No sign of bus storage yard
1981-8	Eschinger Rd	Farm fields	Very similar to 1994 photo
1981-9	South of Eschinger Rd (where it turns north)	Farm fields	Similar to 1994 photo
1981-10	Cosumnes River	Cosumnes River,	

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Comments on 1981 Historical Photos			
Photo Number	Orientation Features	Visible Features	Noteworthy Features
		agricultural and riparian areas	
1981-11	Cosumnes River, RR, Highway 99, Arno Rd	Cosumnes River, RR tracks, Highway 99/ Arno Rd Interchange	Very similar to 1994 photo
1981-12	Arno Rd	Farms, cemetery north of Arno Rd	Very similar to 1994 photo
1981-13	Arno Rd,/Valensin Rd	Farms	Very similar to 1994 photo
1981-14	Valensin Rd	Farms	Same farms visible as in 1994 photo, but no fish ponds visible, just farmland  Corresponds to Figure 37
1981-15	Valensin Rd	Farms, RR tracks, road jogs south then east	Very similar to 1994 photo, but no fish ponds
1981-16	Valensin Rd, Alta Mesa Rd, Laguna Rd	Laguna Creek, Farms	Very similar to 1994 photo
1981-17	Laguna Rd, Twin Cities Rd, RR		Very similar to 1994 photo, but dark area north of Twin Cities Rd indicates lake or flooded area (?)
1981-18	Twin Cities Rd	Ranch at 12901 Twin Cities Rd, Aqueduct (Folsom South Canal), Farms, farmland, creek	Similar to 1994 photo, but with dark area (lake?) described above  Corresponds to Figure 45
1981-19	Twin Cities Rd, Clay Station Rd, Clay East Rd	Houses on Clay East Rd, Area west of Rancho Seco site	Very similar to 1994 photo



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Comments on 1971 Historical Photos			
Photo Number	Orientation Features	Visible Features	Noteworthy Features
1971-0	RR, Franklin Blvd, Dwight Rd, Sims Rd	Farm, farmland	No development except 1 farmhouse on Dwight Rd  Corresponds to Figures 4 and 5
1971-1	RR, Franklin Blvd, Elliott Ranch Rd	Farms, farmland	Very similar to 1981 photos
1971-2	RR, Franklin Blvd	Intersection of RR and Franklin Blvd	Very similar to 1981 photos
1971-3	RR, Franklin Blvd, Bilby Rd	Small residential development on Bilby Rd. west of RR tracks, undeveloped land east of RR tracks, Farms, farm fields, Carmo Dairy (bottom of photo)	Very similar to 1981 photos, but no house with circular drive east of RR tracks, instead site is undeveloped  Carmo Dairy site is less developed – no large outbuildings or sheds, no pond, no paddocks  Corresponds to Figures 14 and 17
1971-4	RR, Franklin Blvd, Core Rd	Franklin Blvd west of RR tracks, Core Rd, farms, farm fields	No development along RR tracks or Core Rd
1971-5	Core Rd, Ed Rau Rd, Eschinger Rd	Farms, farm fields	Same farms as 1981 photos  No development in bus storage yard between Core Rd and Bruceville Rd  Corresponds to Figure 22
1971-6	Eschinger Rd, Bruceville Rd	Farms, farm fields	Essentially same farms as 1981 photos
1971-7	Eschinger Rd	Farm fields	Very similar to 1981 photos
1971-8	South of Eschinger Rd (where it turns north)	Farm fields	Very similar to 1981 photos
1971-9	Cosumnes River	Cosumnes River, agricultural and riparian areas, RR tracks, Highway 99	Similar to 1981 photos
1971-10	RR, Highway 99, Arno Rd	RR tracks, Highway 99/ Arno Rd Interchange, cemetery north of Arno	Very similar to 1981 photos

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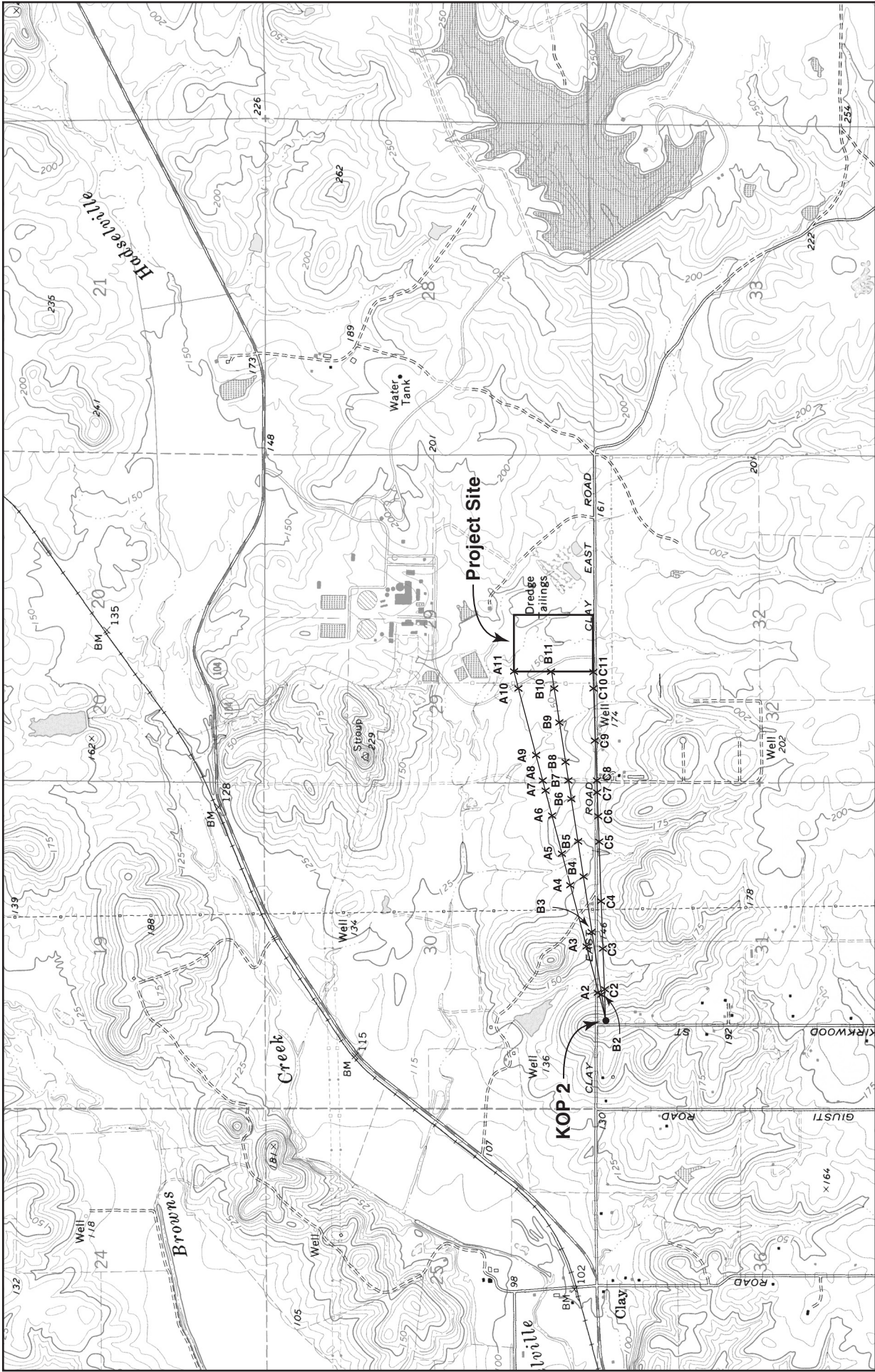
Comments on 1971 Historical Photos			
Photo Number	Orientation Features	Visible Features	Noteworthy Features
		Rd, Farms	
1971-11	Arno Rd./Valensin Rd	Farms	Very similar to 1981 photos
1971-12	Valensin Rd	Farms	Similar to 1981 photos, but fewer buildings, other farms, no fish farms  Corresponds to Figure 37
1971-13	Valensin Rd	Farmland	Very similar to 1981 photos
1971-14	RR, Valensin Rd, Alta Mesa (lower right)	Farms	Very similar to 1981 photos
1971-15	Valensin Rd, Alta Mesa Rd, Laguna Rd, Twin Cities Rd	Laguna Creek, Laguna Rd on right, Farms, RR tracks, Twin Cities Rd	Farm east of Alta Mesa/Valensin intersection not present
1971-16	Laguna Rd, Twin Cities Rd, RR	Ranch at 12901 Twin Cities Rd	Ranch clearly visible in upper right hand corner  No lake west of ranch, Aqueduct not yet constructed  Corresponds to Figure 45
1971-17	Twin Cities Rd	East side of Ranch	No aqueduct
1971-18	Clay East Rd, Twin Cities Rd	Houses on Clay East Rd, Area west of Rancho Seco site	Very similar to 1981 photo

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Comments on 1961 Historical Photos			
Photo Number	Orientation Features	Visible Features	Noteworthy Features
1961-1	RR, Dwight Rd	Farm, farmland	No development on Dwight Rd west of RR tracks  Very similar to 1971 photos  Corresponds to Figures 4 and 5
1961-2	RR, Franklin Blvd, Elliott Ranch Rd	Farms, farmland	No development along RR  Very similar to 1971 photos
1961-3	RR, Franklin Blvd, Bilby Rd, Town of Franklin	Intersection of RR and Franklin Blvd	Very similar to 1971 photos  Corresponds to Figure 14
1961-4	RR, Franklin Blvd	Carmo Dairy	Very similar to 1971 photos  Corresponds to Figure 17

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Comments on 1937 Historical Photos			
Photo Number	Orientation Features	Visible Features	Noteworthy Features
1937-1	RR, Franklin Blvd, Dwight Rd, Sims Rd	Farm, farmland	No development west of RR tracks; 1 house east of RR tracks  Very similar to 1961 photos  Corresponds to Figures 4 and 5
1937-2	RR, Franklin Blvd, Elliott Ranch Rd	Farms, farmland	No development along RR  Very similar to 1961 photos
1937-3	RR, Franklin Blvd	Intersection of RR and Franklin Blvd	Very similar to 1961 photos
1937-4	RR, Franklin Blvd, Bilby Rd	Bilby Rd at top of photo	Residential development on west side of RR tracks not present  Corresponds to Figure 14
1937-5	Franklin Blvd, RR, Core Rd, Ed Rau, Eschinger Rd	Carmo Dairy (very top of photo), Core Rd	Core Rd – western part same as 1961 photo  Core/Ed Rau/Eschinger – same farms as 1971 photo, no development in bus storage yard area  Corresponds to Figures 17 and 22
1937-6	Eschinger Rd., Bruceville Rd	Farms, farmland	Similar to 1971 photo, but fewer farms
1937-7	Eschinger Rd (where it turns north)	Undeveloped or agricultural land	
1937-8	Cosumnes River, RR	RR in upper right hand corner, otherwise undeveloped	



**FIGURE 8.11-6**  
**MAPPED LINES-OF-SIGHT**  
**"A" "B" AND "C"**  
 COSUMNES POWER PLANT  
 APPLICATION FOR CERTIFICATION

